

Human CellExp CNTN2/Contactin-2, human recombinant protein

CNTN2, CNTN-2, AXT, DKFZp781D102, FLJ37193, FLJ42746, MGC157722, TAG-1, TAG1, TAX, TAX1, TAX-1, Cont
Catalog # PBV11063r

Specification

Human CellExp CNTN2/Contactin-2, human recombinant protein - Product info

Primary Accession
Calculated MW

[Q02246](#)

This protein is fused with 6×his tag at the C-terminus and has a calculated MW of 109 kDa expressed. The predicted N-terminus is Ser 31. Protein migrates as 140 kDa in reduced SDS-PAGE resulting from glycosylation. KDa

Human CellExp CNTN2/Contactin-2, human recombinant protein - Additional Info

Gene ID
Gene Symbol
Other Names

6900
CNTN2

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Gene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Results

Human
HEK293 cells
SDS-PAGE; ≥95%
N/A;
Yes
Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons. Optimal neurite outgrowth was observed when neurons were plated on 96-well culture plates that had been precoated with 50 µl/well of the rhContactin2 solution at 8-30 µg/ml.

Target/Specificity
CNTN2/Contactin-2

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp CNTN2/Contactin-2, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp CNTN2/Contactin-2, human recombinant protein - Images

Human CellExp CNTN2/Contactin-2, human recombinant protein - Background

Contactin-2 also known as CNTN2, TAX1 (transiently-expressed axonal glycoprotein), TAG1 (transient axonal glycoprotein), and axonin-1, and is a member of the immunoglobulin superfamily. CNTN2 consists of six Ig-like domains and four fibronectin type III domains, and is anchored to the membrane by glycosylphosphatidylinositol (GPI), whereas the soluble form can be released by a GPI-specific phospholipase. As a neural cell adhesion molecule expressed by a subset of neuronal populations in the developing CNS and PNS, CNTN2 mediates cell-cell interactions either via homophilic, or heterophilic contacts with various adhesion molecules including NgCAM, NrCAM, NCAM and neurocan. It is a glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein that functions as a cell adhesion molecule. It may play a role in the formation of axon connections in the developing nervous system. It may also be involved in glial tumorigenesis and may provide a potential target for therapeutic intervention.

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Kozlov S.V., et al. Genomics 30:141-148(1995).
Gregory S.G., et al. Nature 441:315-321(2006).
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